

FIG. 1 is a block diagram of a system architecture.

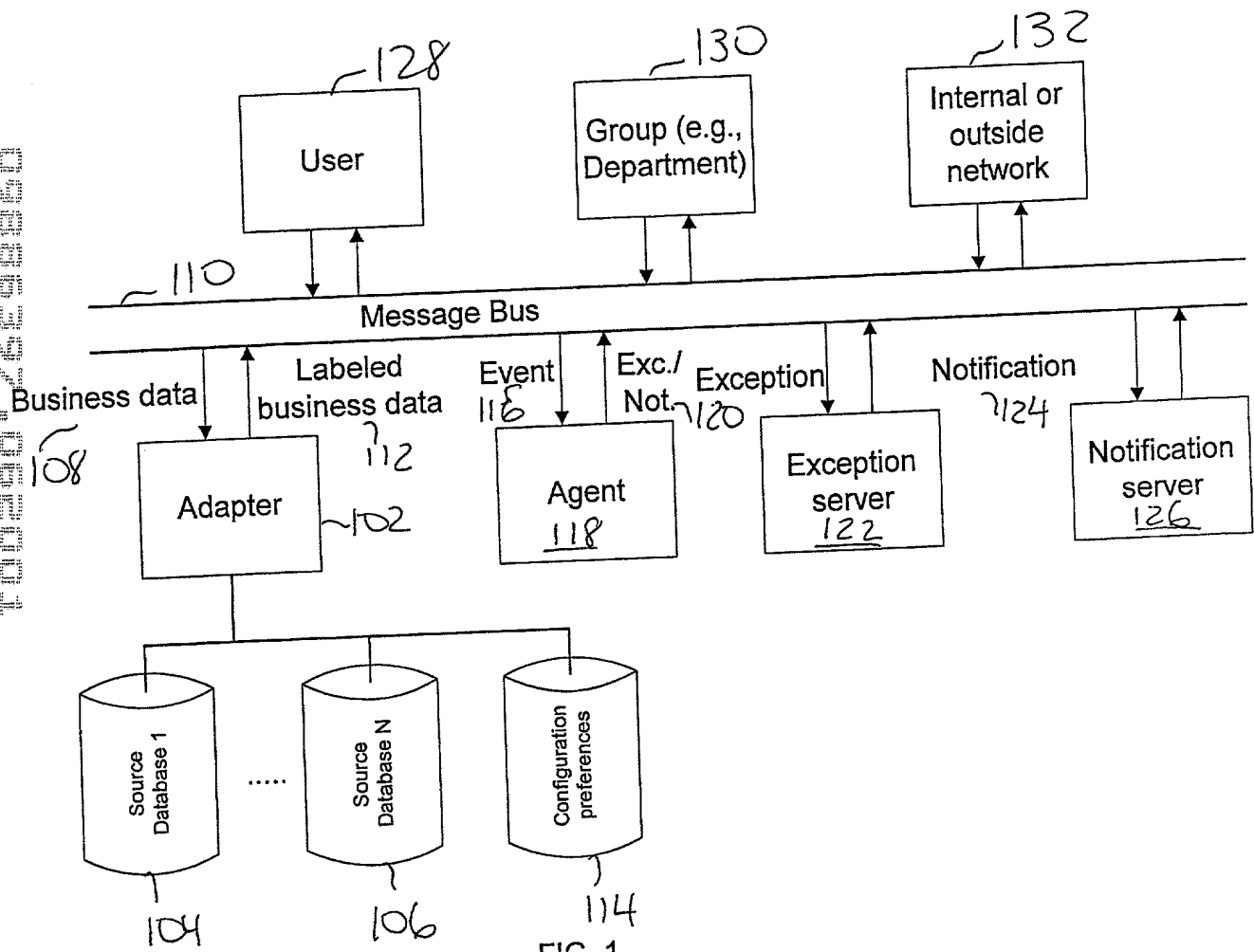


FIG. 1

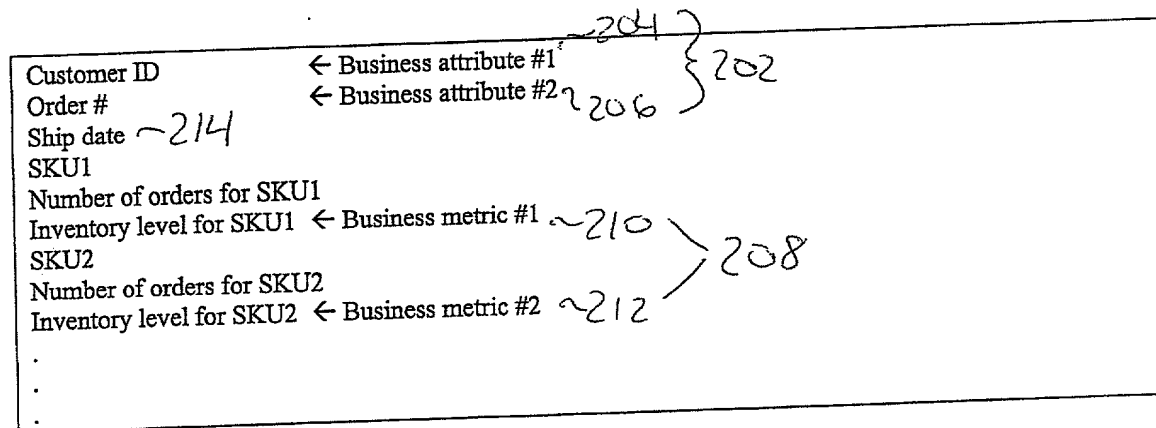


FIG. 2

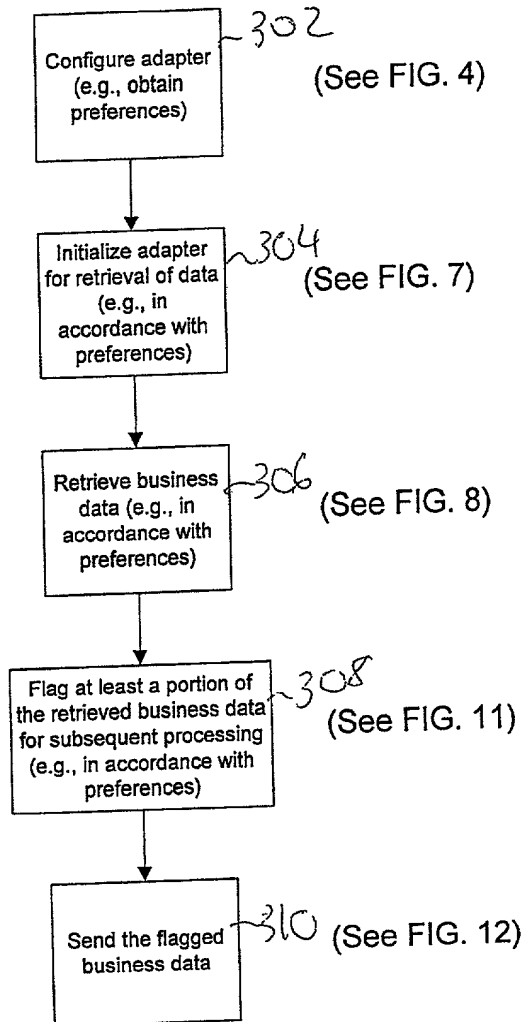


FIG. 3

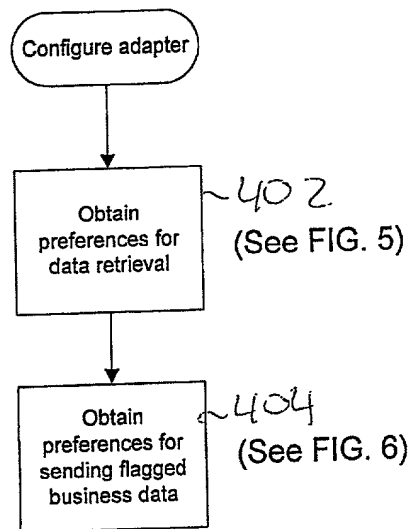


FIG. 4

Obtain
preferences for
data retrieval

Identifying
business data
fields indicating
business data to
be retrieved

Identifying source
of data retrieval
(e.g., database
tables, message
bus)

Selecting scheduling
frequency for retrieval of
business data (e.g.,
daily, weekly, hourly)

402

502

504

506

FIG. 5

Obtain preferences for
sending flagged
business data

Identifying business
attributes of the retrieved
business data to be
flagged for further
processing (e.g.,
monitoring)

Identifying business
metrics of the retrieved
business data to be
flagged for further
processing (e.g.,
monitoring)

404

~602

~604

FIG. 6

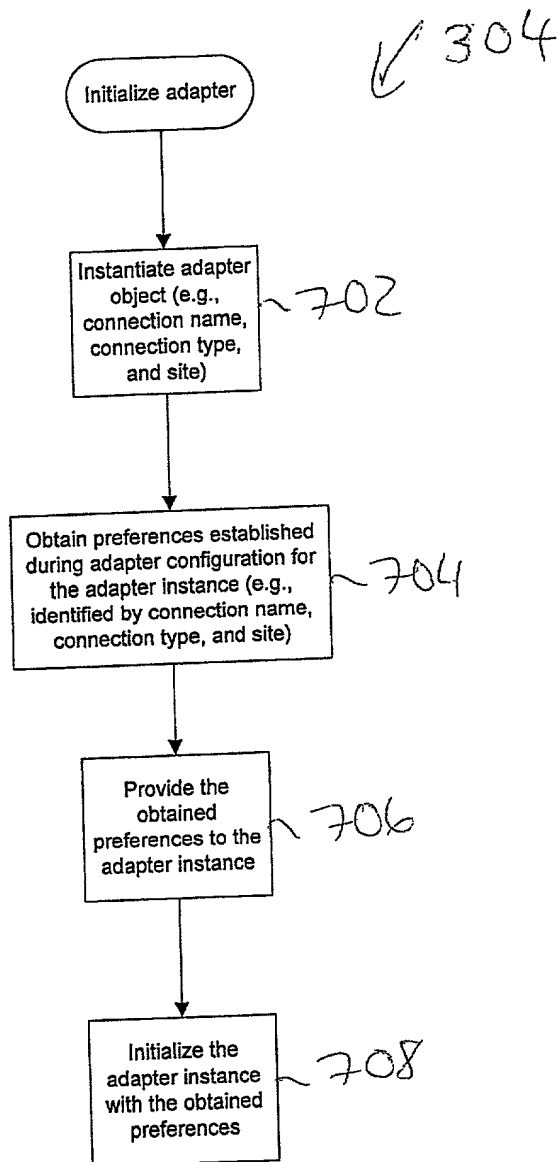


FIG. 7

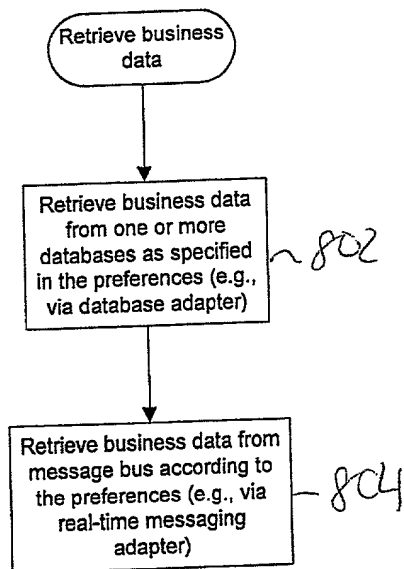


FIG. 8

✓ 802

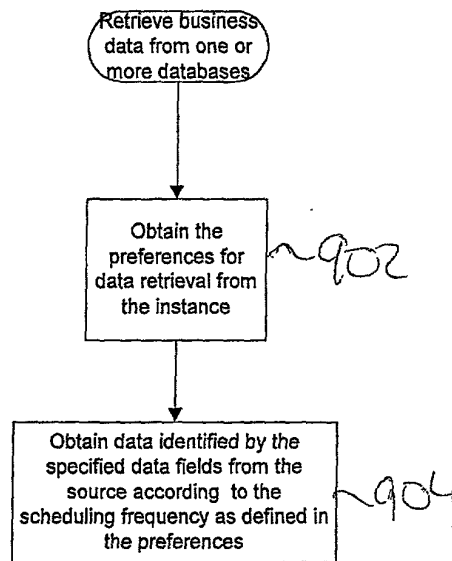


FIG. 9

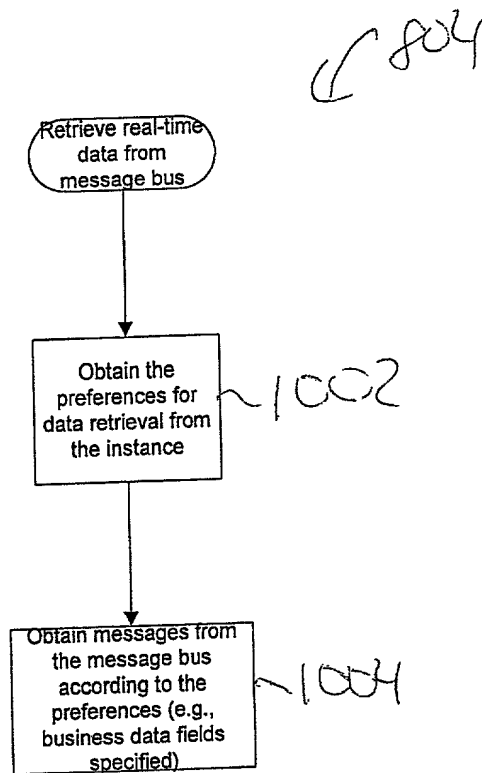


FIG. 10

~1102
~1106
~1104

Attribute name	Data type	Attribute value	Attribute #	Metric value flag
Customer	String	"SHOES INC"	1	
Order No.	Integer	42859	2	
Ship date	String	"01/04/01"		
SKU1	Integer	000195		
Number of orders - SKU1	Integer	4		
Inventory level for SKU1	Integer	97		1
SKU2	Integer	000228		
Number of orders - SKU2	Integer	16		
Inventory level for SKU2	Integer	31		2

FIG. 11

Message

Subject name	1202
Array (see FIG. 11)	1204

FIG. 12

FIG. 12

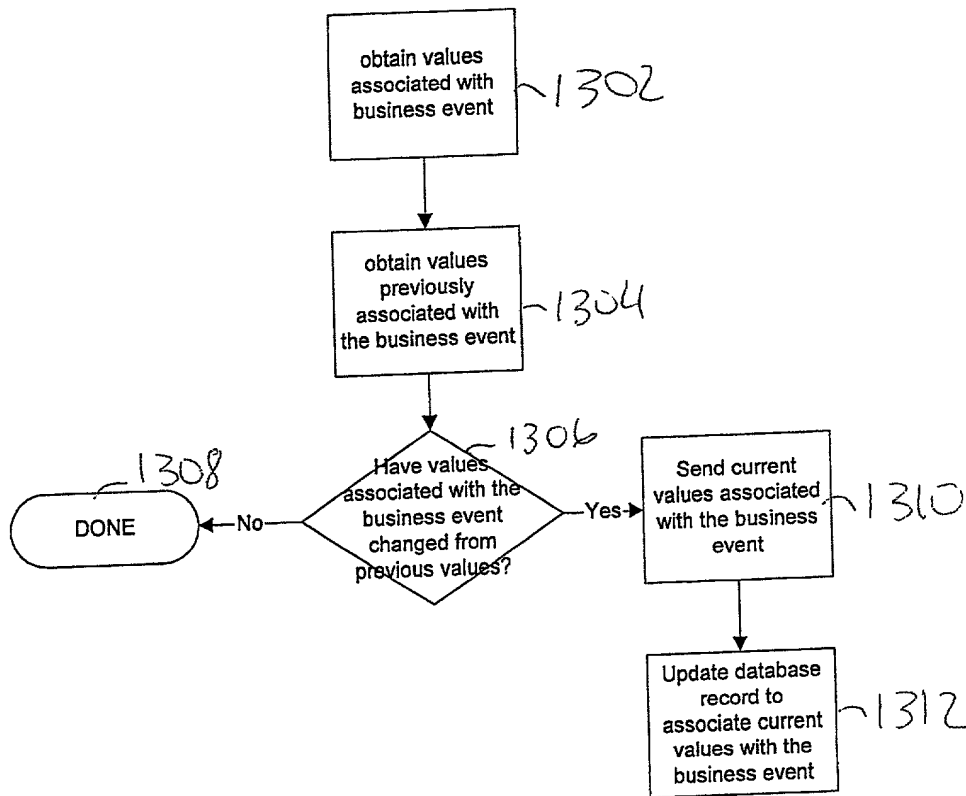


FIG. 13

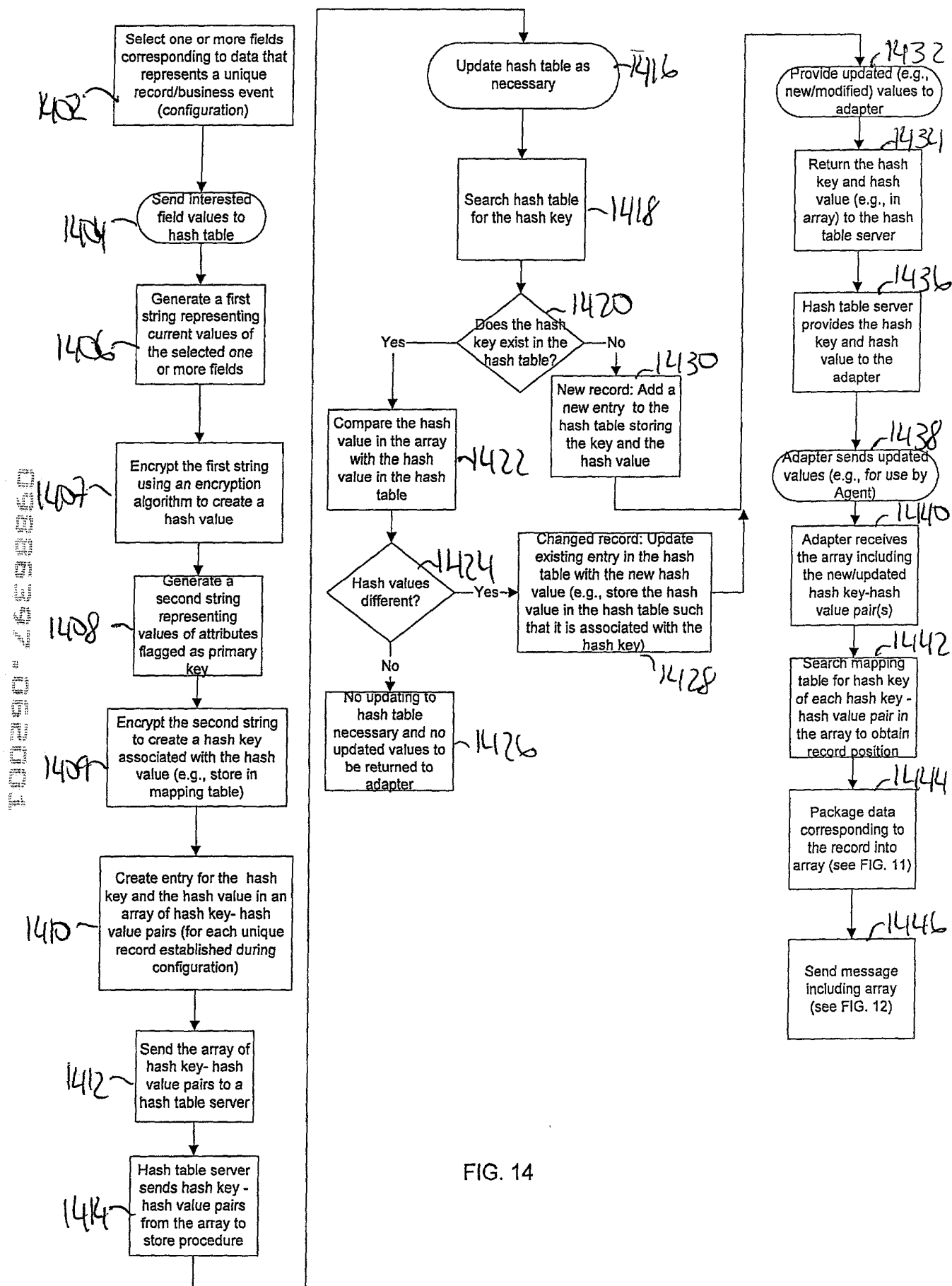


FIG. 14

1502 1504

Hash key	Hash value
Key 1	String 1
Key 2	String 2

FIG. 15

1602 Mapping Table 1604

Hash key	Original record position (e.g., pointer)

FIG. 16

FIG. 15

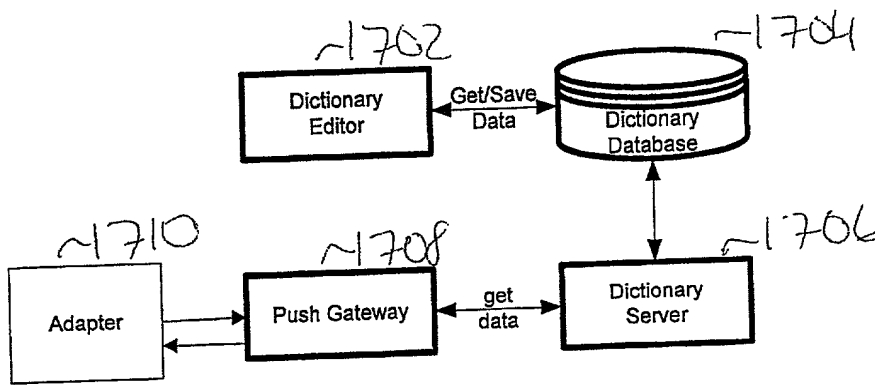


FIG. 17

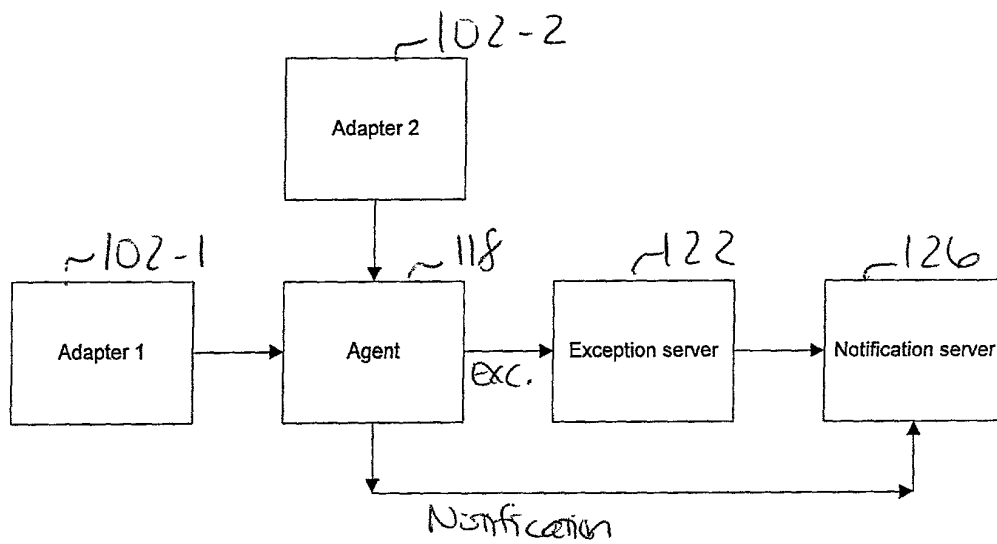


FIG. 18

FIG. 19

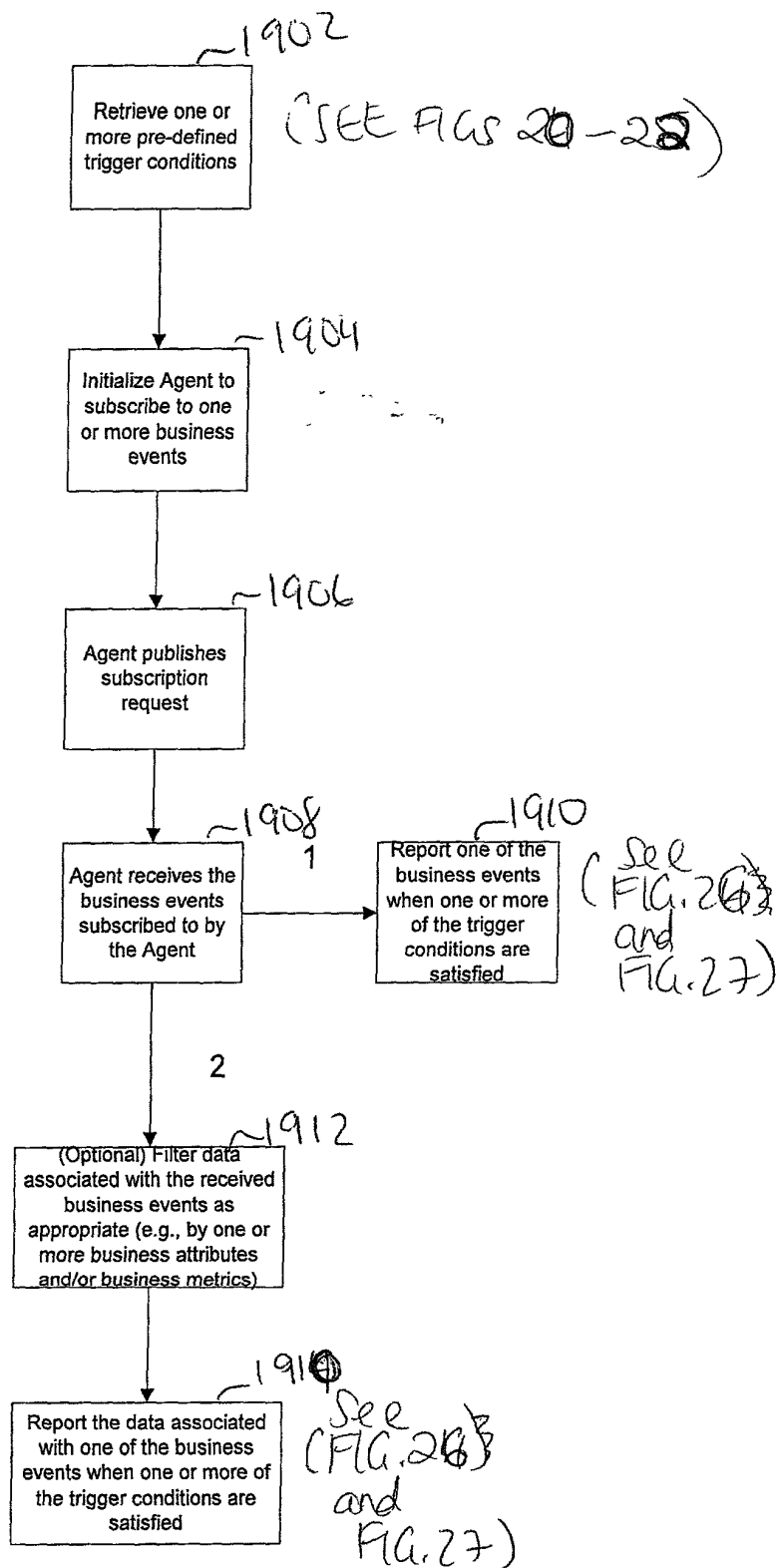


FIG. 19

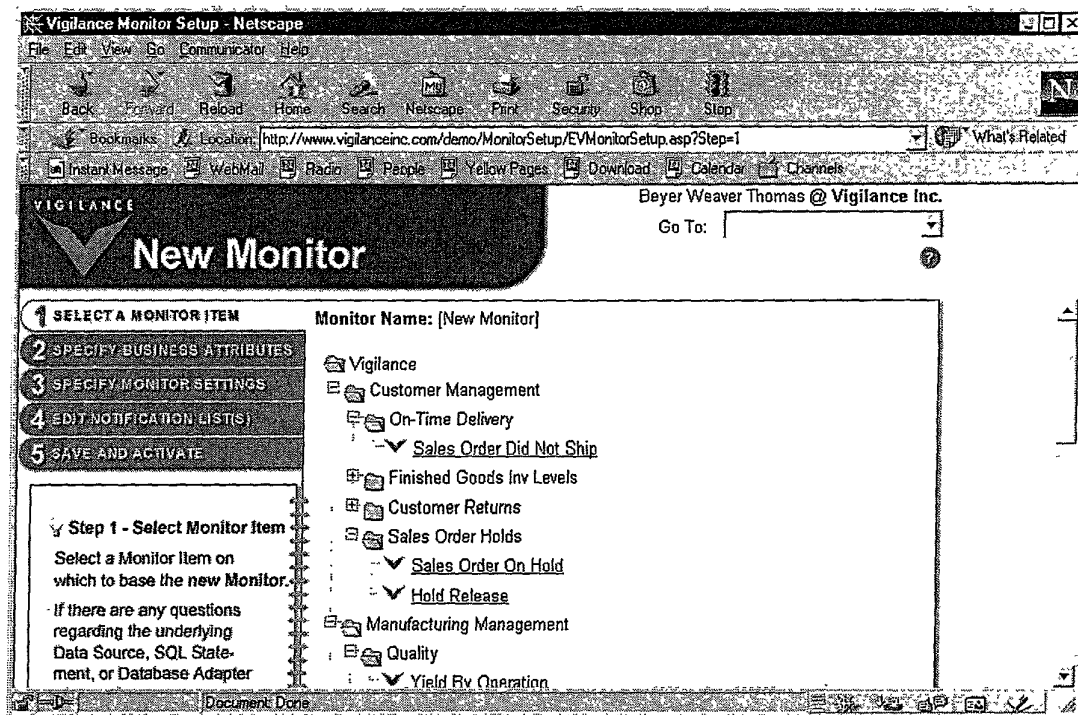


FIG. 20

Vigilance Monitor Setup - Netscape

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Bookmarks Location: <http://www.vigilanceinc.com/demo/MonitorSetup/EVMonitorSetup.asp?MonitorItem=lateshipment&Step=2> What's Related

Instant Message WebMail Radio People Yellow Pages Download Calendar Channels

VIGILANCE

New Monitor

Beyer Weaver Thomas @ Vigilance Inc.

Go To: []

1 SELECT A MONITOR ITEM Monitor Name: [New Monitor] **STEP 1 STEP 3**

2 SPECIFY BUSINESS ATTRIBUTES Monitor Item: Sales Order Did Not Ship

3 SPECIFY MONITOR SETTINGS

4 EDIT NOTIFICATION LIST(S)

5 SAVE AND ACTIVATE

Step 2 - Specify Business Attribute Values

- Business Attribute Values are case-sensitive.
- Business Attribute Values are optional.

Business Attribute: Order

Enter/Select Attribute Values

Track These Values

[All Values]

Business Attribute: Product Family

Enter/Select Attribute Values

Track These Values

[All Values]

[Select Values]

DiskDrive100

DiskDrive200

HardDrive100

PackagedDrives

Business Attribute: Plant

Document Done

FIG. 21

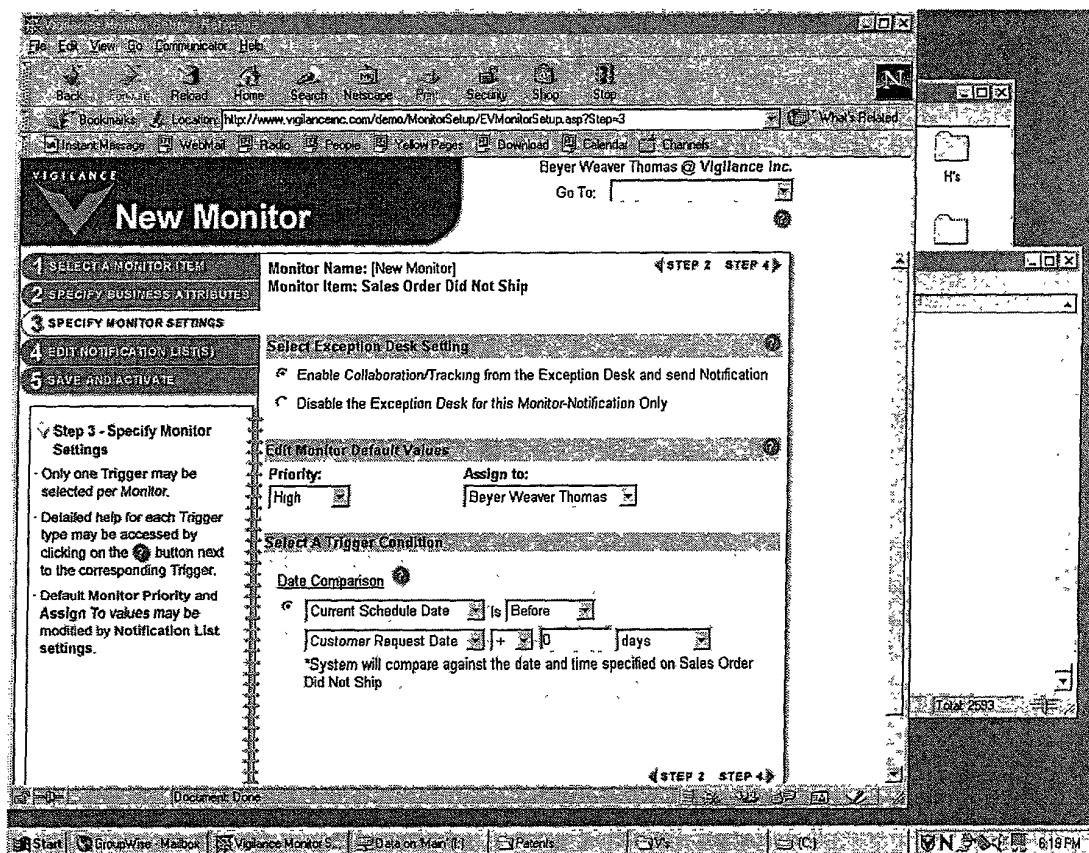


FIG. 22

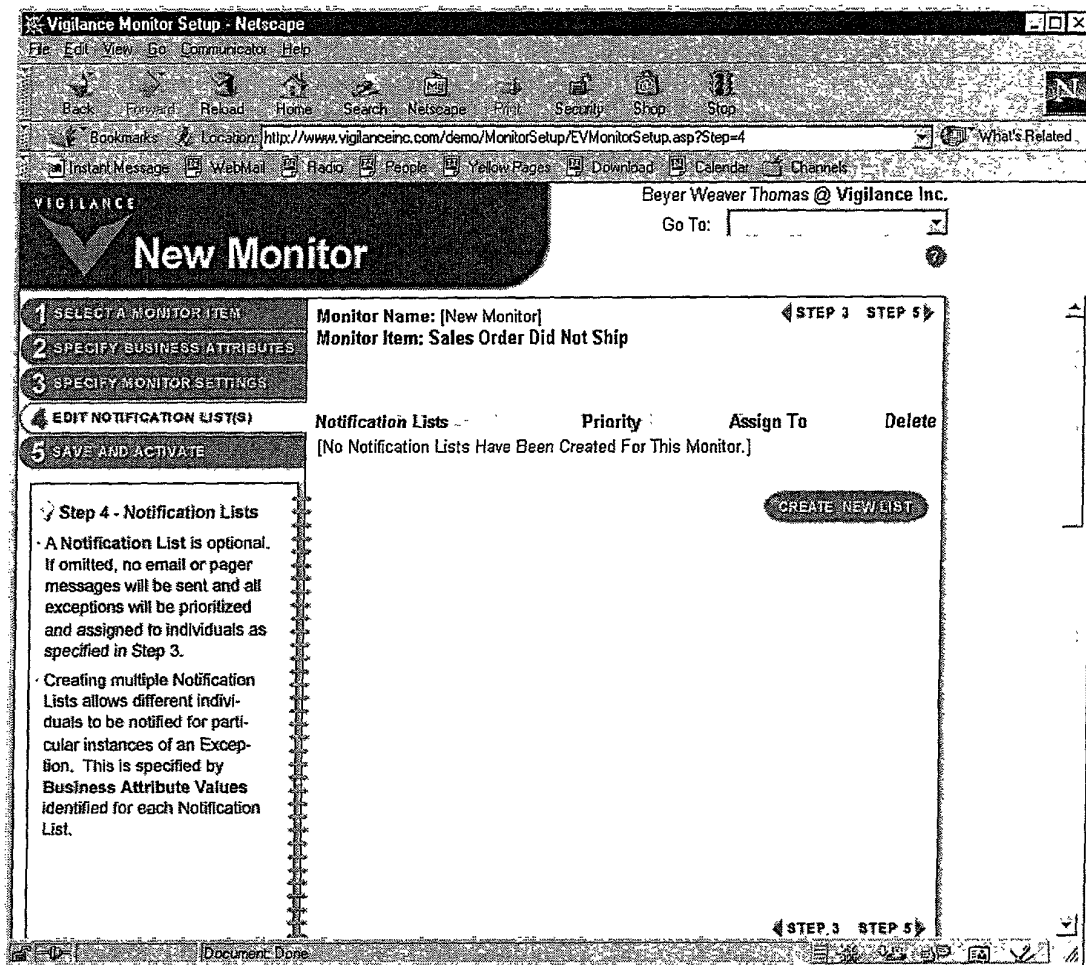


FIG. 23

Vigilance Monitor Setup - Netscape

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Bookmarks Location: <http://www.vigilanceinc.com/demo/MonitorSetup/EVMonitorSetup.asp?Step=6> What's Related

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Beyer Weaver Thomas @ Vigilance Inc.

Go To:

VIGILANCE New Monitor

- 1 SELECT A MONITOR ITEM
- 2 SPECIFY BUSINESS ATTRIBUTES
- 3 SPECIFY MONITOR SETTINGS
- 4 EDIT A NOTIFICATION LIST
- 5 SAVE AND ACTIVATE

Step 4 - Notification Lists

- A Notification List is optional. If omitted, no email or pager messages will be sent and all exceptions will be prioritized and assigned to individuals as specified in Step 3.
- Creating multiple Notification Lists allows different individuals to be notified for particular instances of an Exception. This is specified by Business Attribute Values identified for each Notification List.

Monitor Name: [New Monitor]
Monitor Item: Sales Order Did Not Ship
List Name: [New List] FINISH LIST

Select Notification Method

☒ E-Mail ☐ Alphanumeric pager ☐ Numeric pager
☐ Disable Notification Grouping for selected users.*

Select Users

Users	Notification Recipients
Alexander Jeffers	Beyer Weaver Thomas(E)
Amie Wang	
Andy Sawran	
Anessa Katz	
Beyer Weaver Thomas	
Bill Bailey	
Bill Gilster	
Bob Durose	
Brian Clausen	

Select Notification Time

☒ At All Times or
☐ From 9 : 00 AM to 5 : 00 PM

Select Notification Days

FIG. 24A

Vigilance Monitor Setup - Netscape

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Bookmarks Location: <http://www.vigilanceinc.com/demo/MonitorSetup/EVMonitorSetup.asp?Step=6> What's Related

Instant Message WebMail Radio People Yellow Pages Download Calendar Channels

VIGILANCE

New Monitor

Beyer Weaver Thomas @ Vigilance Inc.

Go To: []

Select Notification Days

☒ Everyday or

☐ M, ☐ Tu, ☐ W, ☐ Th, ☐ F, ☐ Sa, ☐ Su

Select Notification Delay

☒ Notify immediately, no delay.

☐ Notify after [] days.

☐ Notify when Exception Status is [Closed].

Field-Based Notification (Based on Email Address or Alias)

☐ Use Field-Based Notification

[Select One Monitor Item Attribute]

☐ Enable Safety Net [Select One User]

Notification Method:

☐ E-Mail ☐ Alphanumeric Pagers ☐ Numeric Pagers

Notify These Recipients For

☐ All exceptions of this monitor

☒ Specific exceptions of this monitor (By Business Attributes)

Document Done

FIG. 24B

402423 660000

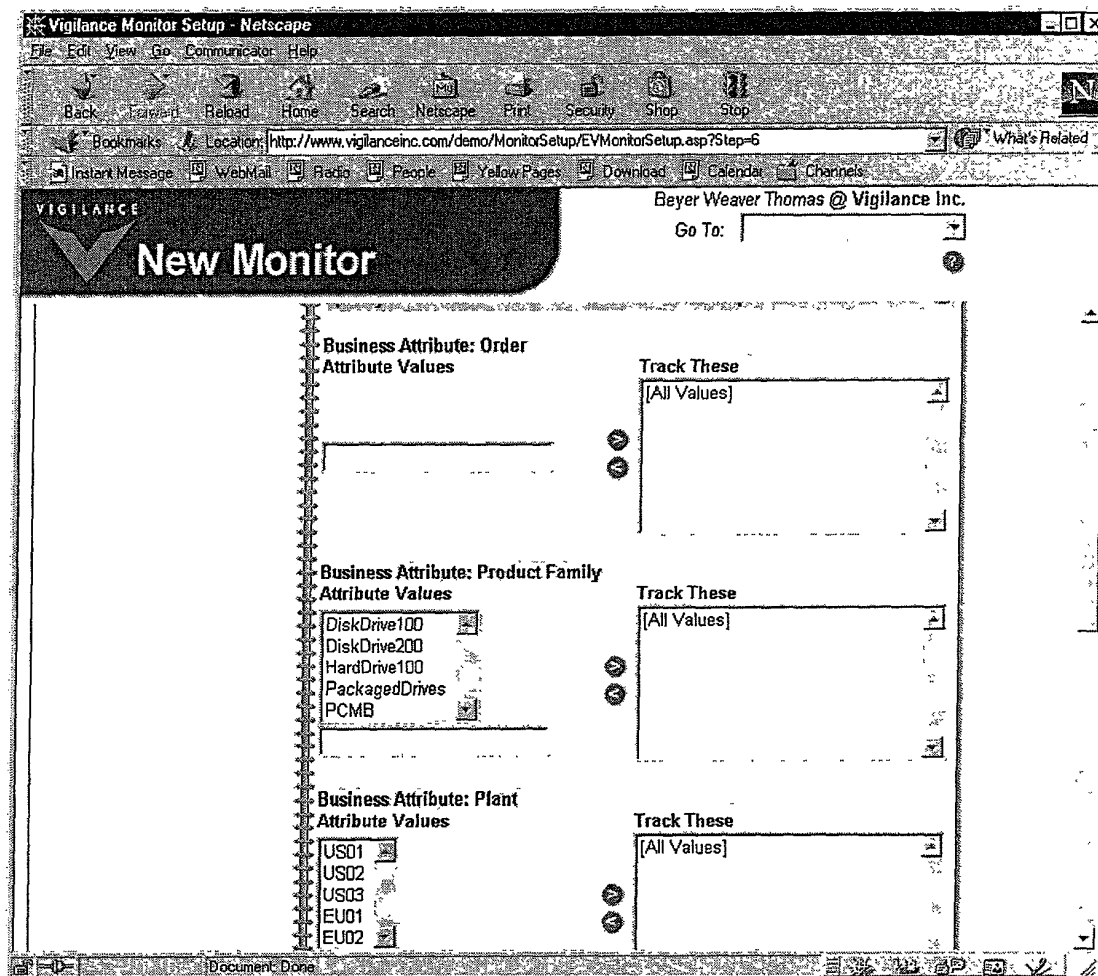


FIG. 24C

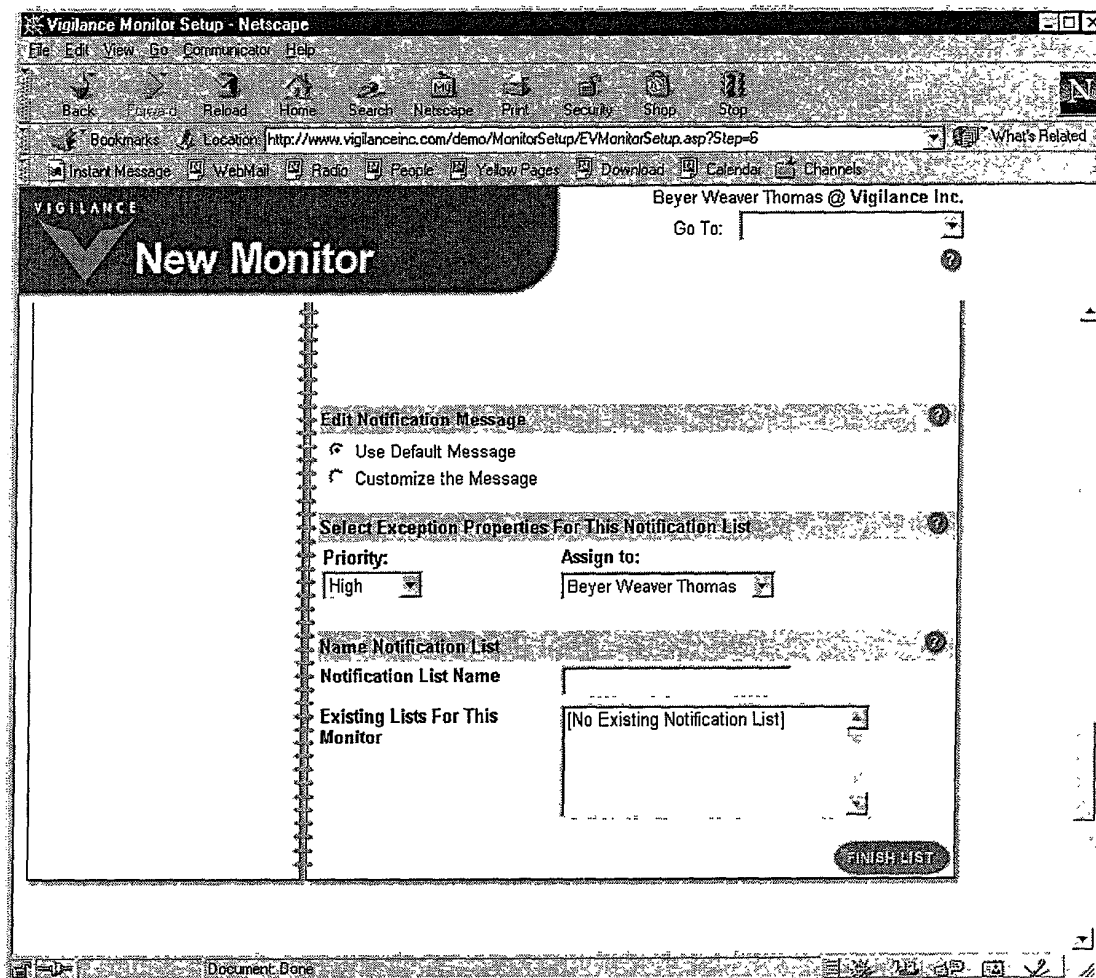


FIG. 24D

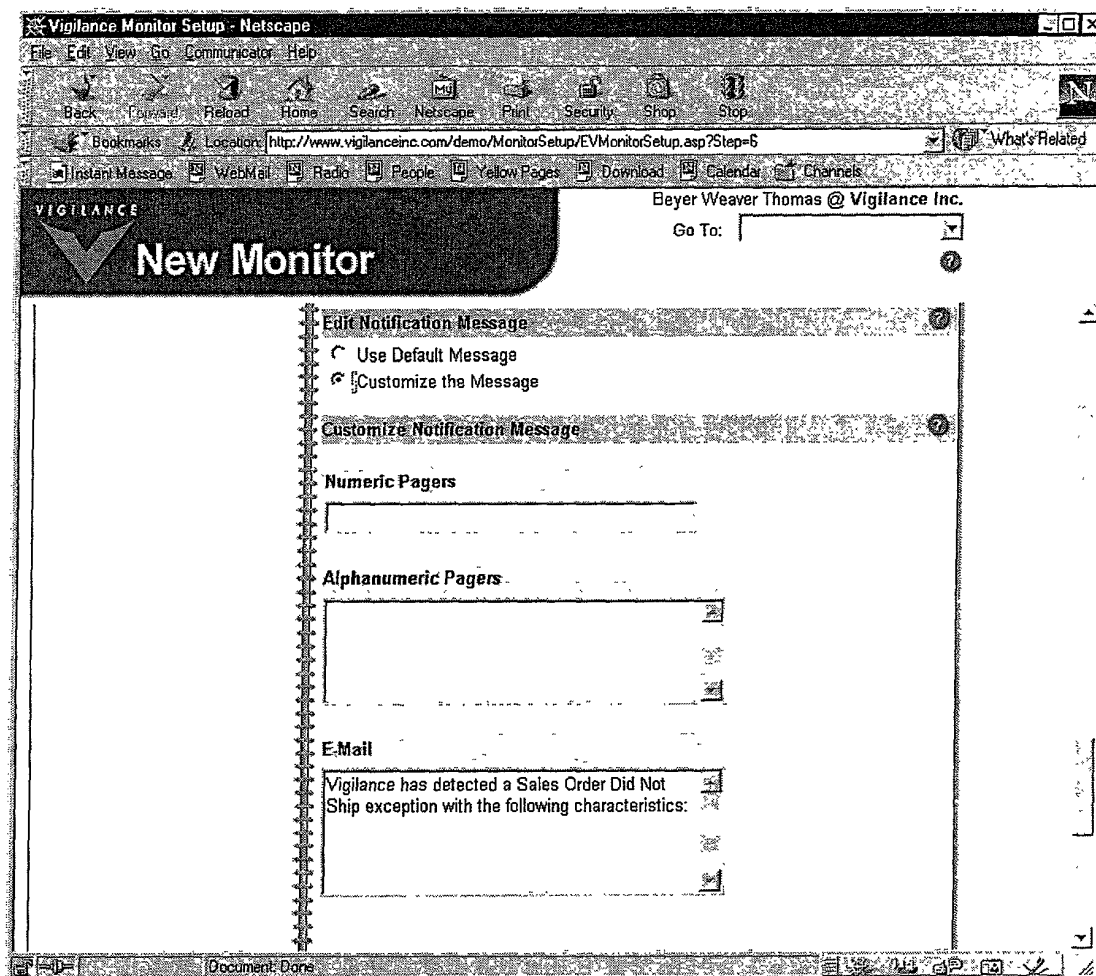


FIG. 24E

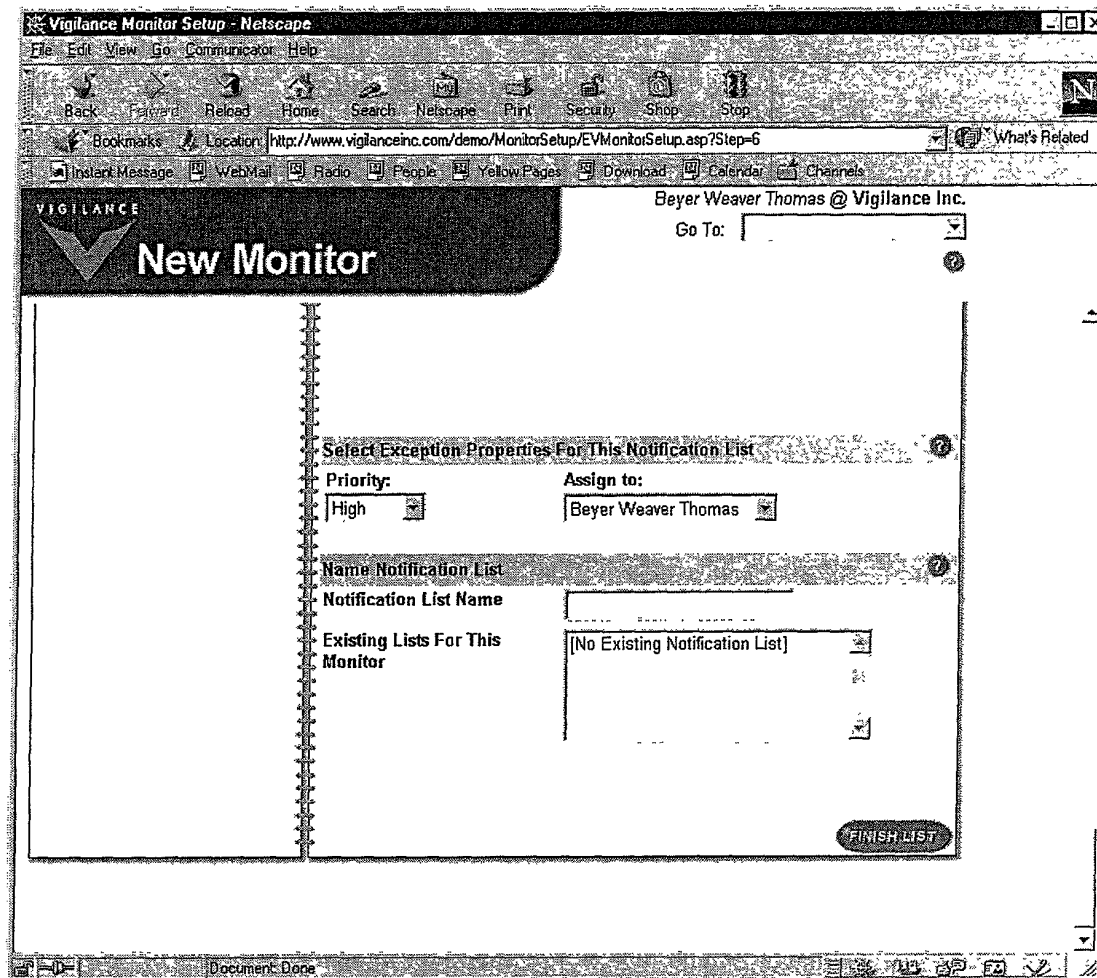


FIG. 24F

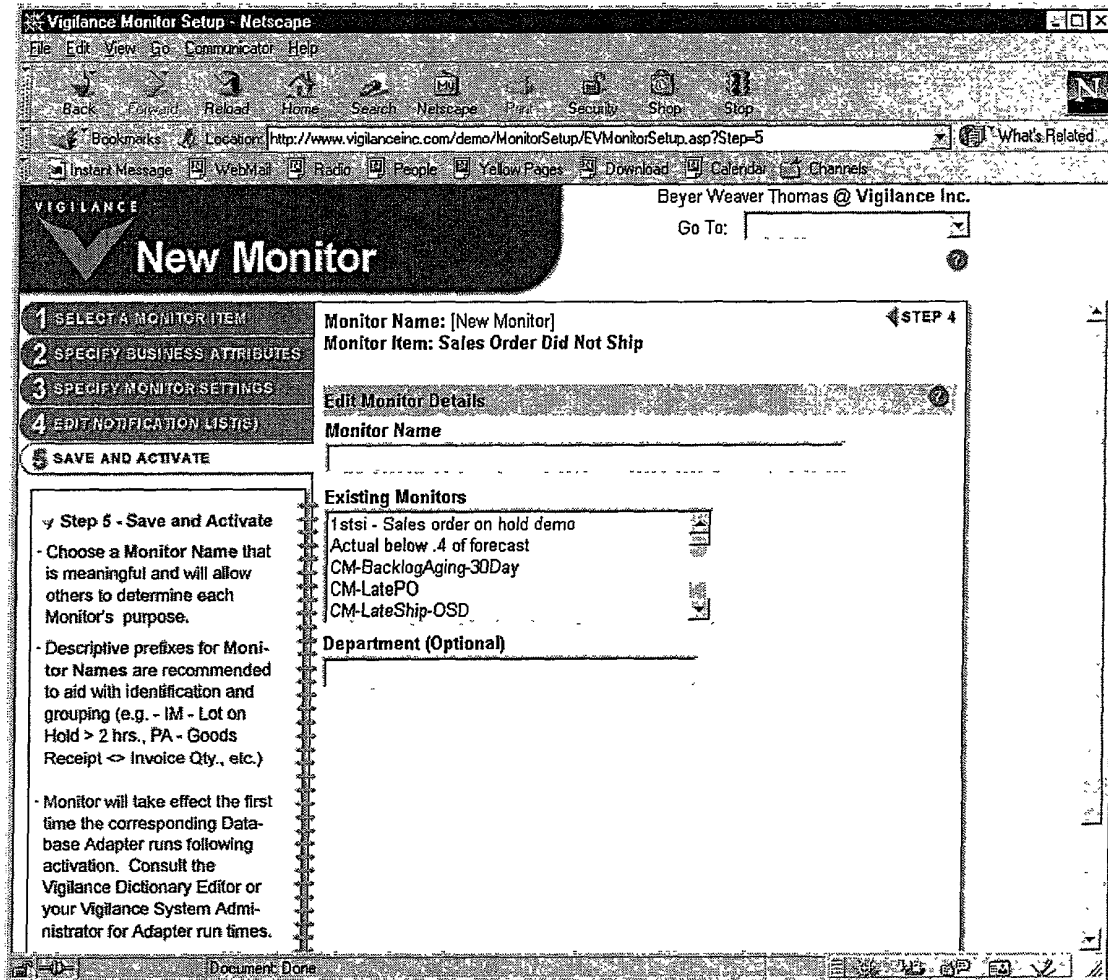
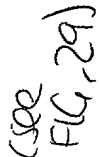


FIG. 25



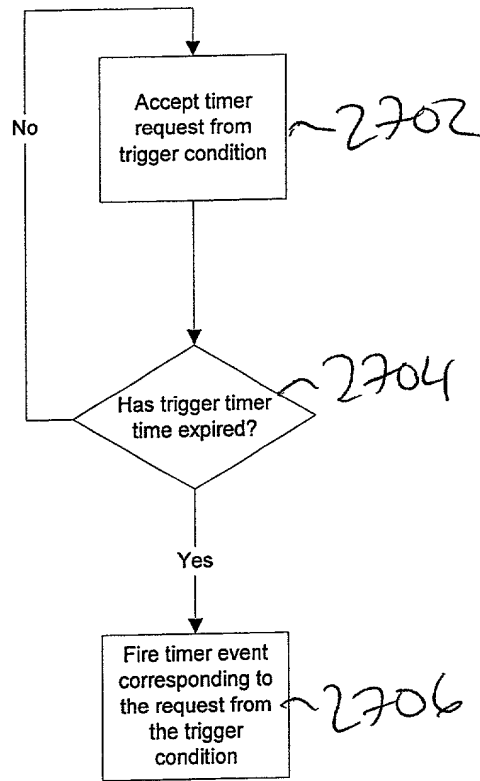


FIG. 27

Monitor object

Monitor Name 2802
Monitor Author 2804
Condition 2806
One or more attributes 2808 (e.g., including one or more values)
Notification 2810
Assignment 2812

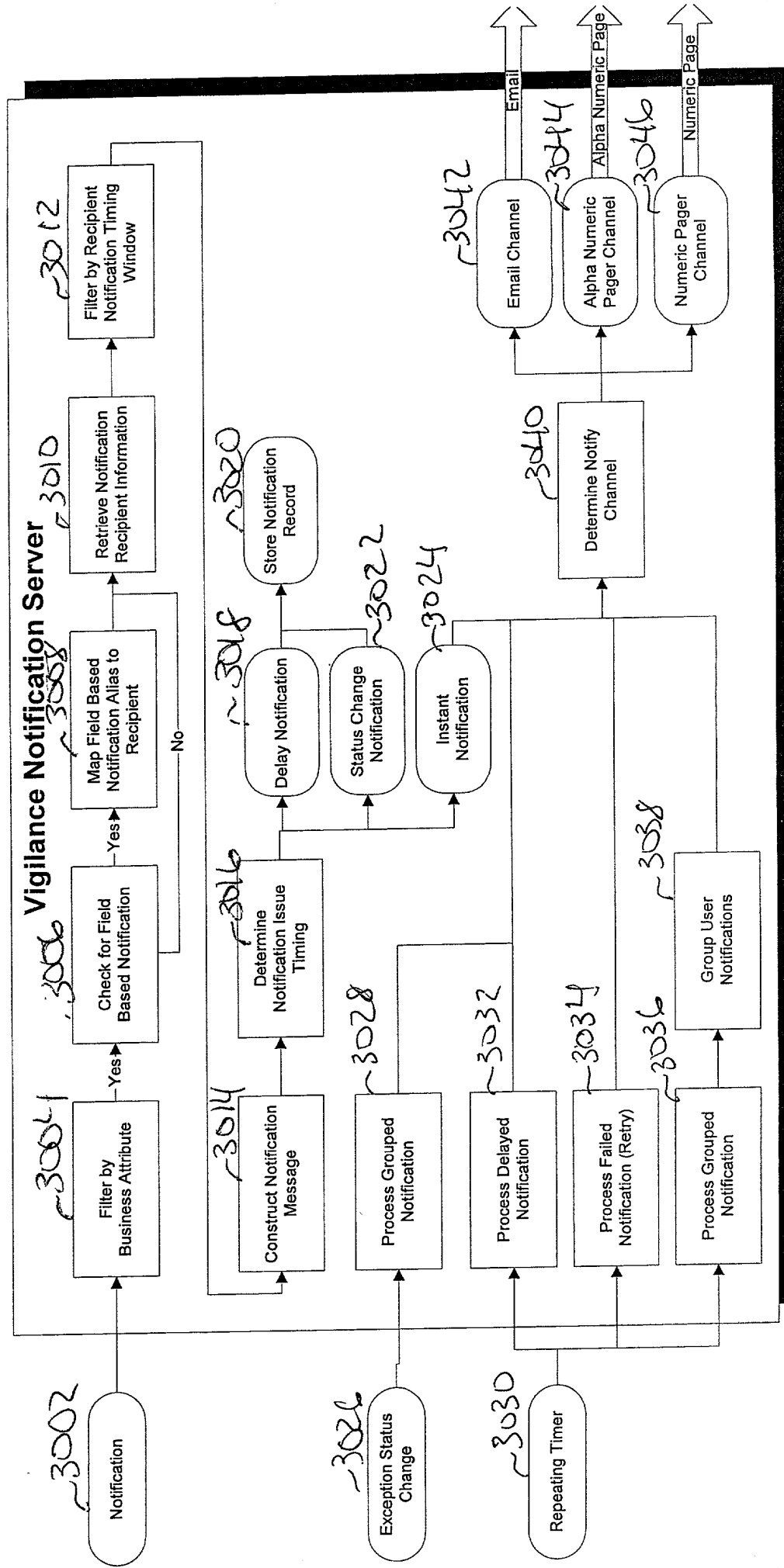
FIG. 28

Exception object

Exception identifier 2902	Exception description 2904	Event identifier 2906
Trigger condition 2908	Trigger type 2910	One or more attributes (e.g., business metrics) 2912
One or more attribute values 2914	Monitor name 2916	Monitor item 2918
Notification/exception 2920	Assign to 2922	Priority 2924
Detection time 2926	Analysis 2928	Analysis author 2930

FIG. 29

FIG. 30



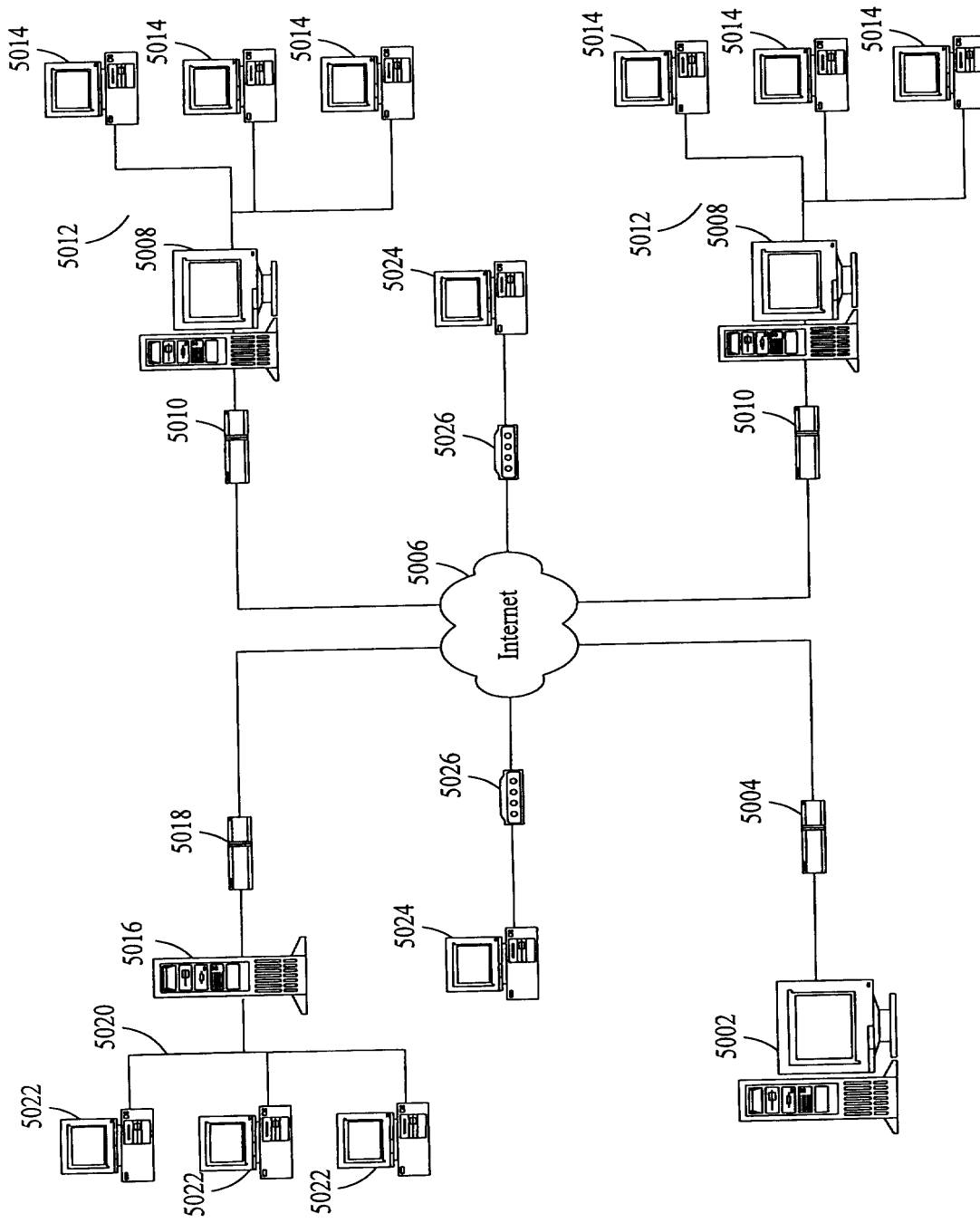


FIG. 31